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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/616,044	07/08/2003	Michael X. Yang	AMAT/7669.P2/CMP/ECP/RK	AMAT/7669.P2/CMP/ECP/RKK 9799		
44257	7590 03/14/2006		EXAMINER			
PATTERSON & SHERIDAN, LLP			. VAN, LUAN V			
3040 POST OAK BOULEVARD, SUITE 1500 HOUSTON, TX 77056		JITE 1300	ART UNIT	PAPER NUMBER		
			. 1753			
			DATE MAILED: 03/14/200	DATE MAILED: 03/14/2006		

. Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/616,044	YANG ET AL.	
Examiner	Art Unit	T
Luan V. Van	1753	

	Luan V. Van	1753	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence addi	ess
THE REPLY FILED 21 February 2006 FAILS TO PLACE THIS	APPLICATION IN CONDITION FO	R ALLOWANCE.	
1.  The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods:	the same day as filing a Notice of ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in the same of Appeal (with appeal fee) in the same of Appeal (with appeal fee) in the same of	Appeal. To avoid abarifidavit, or other eviden compliance with 37 CF	ce, which R 41.31; or (3)
a) The period for reply expires 3 months from the mailing date	of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (TWO MONTHS OF THE FINAL REJECTION. See MPEP 70)	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailin (b). ONLY CHECK BOX (b) WHEN THI 06.07(f).	g date of the final rejection E FIRST REPLY WAS FI	on. LED WITHIN
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extender 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply orig than three months after the mailing da	of the fee. The appropria	ate extension fee be action; or (2) as
2. The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any external Notice of Appeal has been filed, any reply must be filed AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of e appeal. Since
3. The proposed amendment(s) filed after a final rejection,	out prior to the date of filing a brief,	, will not be entered be	ecause
(a) They raise new issues that would require further co			
<ul> <li>(b) ☐ They raise the issue of new matter (see NOTE belo</li> <li>(c) ☐ They are not deemed to place the application in bet appeal; and/or</li> </ul>		ducing or simplifying t	he issues for
(d) They present additional claims without canceling a	corresponding number of finally rej	ected claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			DT01 40.0
4. The amendments are not in compliance with 37 CFR 1.13		mpliant Amendment (	PTOL-324).
<ul><li>5. Applicant's reply has overcome the following rejection(s)</li><li>6. Newly proposed or amended claim(s) would be al</li></ul>		timely filed emendme	nt conceling the
non-allowable claim(s).	iowabie ii subiliilled iii a separale,	unlery med amendine	nt canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided that the status of the claim(s) is (or will be) as follows: Claim(s) allowed: None. Claim(s) objected to: None. Claim(s) rejected: 1-31. Claim(s) withdrawn from consideration:		II be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
<ol> <li>The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>	t before or on the date of filing a N d sufficient reasons why the affidat	otice of Appeal will <u>no</u> vit or other evidence is	t be entered necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to c showing a good and sufficient reasons why it is necessar.	vercome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fail See 37 CFR 41.33(d)(1	s to provide a ).
10. ☐ The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	ntry is below or attach	ea.
11.  The request for reconsideration has been considered bu See Continuation Sheet.	t does NOT place the application in	n condition for allowar	ice because:
<ul><li>12. ☐ Note the attached Information Disclosure Statement(s).</li><li>13. ☐ Other:</li></ul>	(PTO/SB/08 or PTO-1449) Paper N	lo(s)	

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 2/21/2006 have been fully considered but they are not persuasive. In the arguments presented on page 11 of the amendment, the applicant argues that Mayer et al. do not disclose using an ionic membrane. The examiner respectfully disagrees. Mayer et al. teach a "transport barrier [i.e., porous membrane 209] limits the chemical transport (via diffusion and/or convection) of all species but allows migration of ionic species (and hence passage of current) during application of sufficiently large electric fields within electrolyte" (see abstract). Mayer et al. further explains, " a primary purpose of porous membrane 209 is to maintain a separate chemical and/or physical environment in anode chamber 205 and cathode chamber 207. Most importantly, membrane 209 should be designed or selected to largely prevent non-ionic organic species from entering anode chamber 205. More specifically, poison forming organic additives should be kept out of anode chamber 205" (column 9 lines 44-50). The porous membrane of Mayer et al. is an ionic membrane, since the porous membrane of Mayer et al. performs the same function as that of the applicant's membrane.

In response to applicant's arguments against the secondary references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). The applicant argues against the secondary references by pointing out the deficiencies (such as not showing an ionic membrane) in the secondary references that are already taught by the primary reference. The examiner agrees that the secondary references alone do not anticipate the instant claims, therefore rejections under 35 U.S.C. 103(a) are appropriate. The examiner believes that he has met the requirement for a prima facie case of obviousness.

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